

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

CGGACCACCA GCTGGTACTT GA

22

(2) INFORMATION FOR SEQ ID NO: 9:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 22 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

GCTGCCCTAG AGGGTTTTGC TA

22

(2) INFORMATION FOR SEQ ID NO: 10:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 19 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

CGAGACGGCA GAAAGCAGA

19

(2) INFORMATION FOR SEQ ID NO: 11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

GTACAAGTCC CGGGTGGTGA G

21

(2) INFORMATION FOR SEQ ID NO: 12:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

ATACCTAAGA CAAGTTTGCT

20

(2) INFORMATION FOR SEQ ID NO: 13:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

ATCAACCAAT AGAGTCCACC A

21

(2) INFORMATION FOR SEQ ID NO: 14:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

CATCGTTATG AGTGACTGGA

20

(2) INFORMATION FOR SEQ ID NO: 15:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

ACTGATGATC ACCCTCCTGC TCA

23

(2) INFORMATION FOR SEQ ID NO: 16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

GGACAGGCAT TGTTCCCTGG

20

(2) INFORMATION FOR SEQ ID NO: 17:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

TAACTGTGGT TTCCATGACG

20

(2) INFORMATION FOR SEQ ID NO: 18:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

AGGTACTCTT GGTGCAGCCC

20

(2) INFORMATION FOR SEQ ID NO: 19:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

AGCATATAGG AACAGTCGTG CC

22

(2) INFORMATION FOR SEQ ID NO: 20:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

AGTGGACATG AAGAGCACGA A

21

(2) INFORMATION FOR SEQ ID NO: 21:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 30 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

AGCTCTGGCA CTGCTAGCGT CACTGATTTT

30

(2) INFORMATION FOR SEQ ID NO: 22:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 20 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

CAGGTTTCATC GCTCAGCTCC

20

(2) INFORMATION FOR SEQ ID NO: 23:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 20 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

GGCTGTCACC GCTTTCTTGG

20

(2) INFORMATION FOR SEQ ID NO: 24:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

AGTGTTGGCA CTTCTGTGG

19

(2) INFORMATION FOR SEQ ID NO: 25:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

AGCATGGGAG ATGTTGGCAG C

21

(2) INFORMATION FOR SEQ ID NO: 26:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

CTGGTTTAAA CTGGGCCCCAG GAGAGGAGCA

30

(2) INFORMATION FOR SEQ ID NO: 27:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

TGGAGCGAAG GTTAGTGGTC

20

(2) INFORMATION FOR SEQ ID NO: 28:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 28:

TACCTGGCAC CTGAGTGTGG AG

22

(2) INFORMATION FOR SEQ ID NO: 29:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 29:

AGAATTGGAT CATTTCTGAC AGGG

24

(2) INFORMATION FOR SEQ ID NO: 30:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 30:

AGACATGGTC TTTGGCTTCA GGGTC

25

(2) INFORMATION FOR SEQ ID NO: 31:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

CAGACCAATG TGACAATTTT CCCCAAATGT

30

(2) INFORMATION FOR SEQ ID NO: 32:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

CTACCTTCCA CGACTTCACC

20

(2) INFORMATION FOR SEQ ID NO: 33:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 33:

AAGTCTTTTA TAAGGCTCCG GC

22

(2) INFORMATION FOR SEQ ID NO: 34:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

AGGCCATGGT GTCATCCATC

20

(2) INFORMATION FOR SEQ ID NO: 35:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 21 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:

AGAGAGAGAG TAGGTCCGCG G

21

(2) INFORMATION FOR SEQ ID NO: 36:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 30 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA to mRNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Epstein-Barr virus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 36:

CCAATGGGGG AGGAGAGACC AAGACCAATA

30



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12Q 1/70	A3	(11) International Publication Number: WO 99/45155 (43) International Publication Date: 10 September 1999 (10.09.99)
(21) International Application Number: PCT/EP99/01392 (22) International Filing Date: 1 March 1999 (01.03.99) (30) Priority Data: 98200655.3 4 March 1998 (04.03.98) EP 98204231.9 14 December 1998 (14.12.98) EP (71) Applicant (for all designated States except US): AKZO NOBEL N.V. [NL/NL]; Velperweg 76, NL-6824 BM Arnhem (NL). (72) Inventors; and (75) Inventors/Applicants (for US only): VERVOORT, Marcel, Bartolina, Hendrikus, Johannes [NL/NL]; Streefkerkstraat 77, NL-1107 LM Amsterdam (NL). VAN DEN BRULE, Adrianus, Johannes, Christiaan [NL/NL]; Boekweitdonk 8, NL-1112 JJ Diemen (NL). MIDDELDORP, Jaap, Michiel [NL/NL]; Staringstraat 151, NL-5343 GD Oss (NL). (74) Agent: VAN GENT, M.; P.O. Box 20, NL-5340 BH Oss (NL).		(81) Designated States: AU, CA, ID, JP, KR, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims</i> <i>and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 4 May 2000 (04.05.00)
(54) Title: OLIGONUCLEOTIDES FOR THE AMPLIFICATION AND DETECTION OF EPSTEIN BARR VIRUS (EBV) NUCLEIC ACID (57) Abstract <p>The present invention is concerned with oligonucleotides that can be used as in the amplification and detection of Epstein Barr Virus (EBV) nucleic acid, in particular RNA-specific sequences. Furthermore a method for the diagnosis of EBV associated malignant and non-malignant diseases is provided. The oligonucleotides according to the present invention are specifically suited for the detection of EBV gene expression in circulating peripheral blood cells, in human (tumor) tissue samples and thin sections thereof using "in solution" amplification or "in situ" amplification techniques and in other biological samples potentially containing EBV-infected cells.</p>		

*(Referred to in PCT Gazette No. 47/1999, Section II)

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Int. Patent Application No.
PCT/EP 99/01392

According to International Patent Classification (IPC) or to both national classification and IPC

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CHEUNG ET AL.: "DETECTION OF VIRAL SEQUENCES BY INTERNALLY CALIBRATED GENE AMPLIFICATION" BIOTECHNIQUES, vol. 14, no. 5, 1993, pages 785-789, XP002076373	1,10,11, 15,16
Y	the whole document	2-4,7-9, 12,13
X	WO 93 23569 A (RIBOZYME PHARM INC) 25 November 1993 (1993-11-25)	10,11,14
Y	See EBV target sequence 18,19 and 21. the whole document	1,2,8,9, 12,13, 15,16
	— —/— —	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

25 February 2000

Date of mailing of the international search report

16 MARCH 2000

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
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Fax (+31-70) 340-3018

Authorized officer _____

Hagenmaier, S

International Application No.
PCT/EP 99/01392

BNSDOCID: <WO__9945155A3 I >

International Application No.
PCT/EP 99/01392

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

Int. Application No.

PCT/EP 99/01392

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	LABRECQUE ET AL.: "EPSTEIN-BARR VIRUS IN EPITHELIAL CELL TUMORS: A BREAST CANCER STUDY" CANCER RESEARCH, vol. 55, 1995, pages 39-45, XP002131605 the whole document	1,2,8-16
A	EP 0 574 048 A (AKZO NV) 15 December 1993 (1993-12-15) the whole document	
A	WO 93 11267 A (CANCER RES INST) 10 June 1993 (1993-06-10) the whole document	
A	DE 196 27 932 A (BOEHRINGER MANNHEIM GMBH) 15 January 1998 (1998-01-15) the whole document	
A	WO 95 03415 A (WOLF HANS JOACHIM ; REISCHL UDO (DE); MOTZ MANFRED (DE)) 2 February 1995 (1995-02-02) the whole document	
A	EP 0 316 170 A (GENE GALWAY LIMITED G) 17 May 1989 (1989-05-17) the whole document	
P, X	BRINK ET AL.: "NUCLEIC ACID SEQUENCE-BASED AMPLIFICATION, A NEW METHOD FOR ANALYSIS OF SPLICED AND UNSPLICED EPSTEIN-BARR VIRUS LATENT TRANSCRIPTS, AND ITS COMPARISON WITH REVERSE TRANSCRIPTASE" JOURNAL OF CLINICAL MICROBIOLOGY, vol. 36, no. 11, November 1998 (1998-11), pages 3164-169, XP002118063 the whole document	1-5,7-16
T	HAYES ET AL.: "EXPRESSION OF EPSTEIN-BARR VIRUS (EBV) TRANSCRIPTS ENCODING HOMOLOGUES TO IMPORTANT HUMAN PROTEINS IN DIVERSE EBV ASSOCIATED DISEASES" MOLECULAR PATHOLOGY, vol. 52, no. 2, April 1999 (1999-04), pages 97-103, XP000877178 the whole document	1,2,6,8-16

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP 99/01392

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-4,7-16 (all partially)

Oligonucleotides with Seq.IDs 1-5 corresponding to the sequence of the BKRF1 reading frame spanning nucleotides 107950-109872 of EBNA-1, wherein Seq.ID 3 can be provided with a T7-polymerase sequence, methods using said oligonucleotides for the detection of EBV, as well as a test kit comprising these oligonucleotides.

2. Claims: 1,2,8-16 (all partially)

Oligonucleotides with Seq.IDs 6-11 corresponding to the sequence of the reading frame spanning nucleotides 6629-6795 of EBER-1, wherein Seq.ID 6 can be provided with a T7-polymerase sequence, methods using said oligonucleotides for the detection of EBV, as well as a test kit comprising these oligonucleotides.

3. Claims: 1,2,8-16 (all partially)

Oligonucleotides with Seq.IDs 12-16 corresponding to the sequence of the BNLF1 reading frame spanning nucleotides 169474-169207 of LMP-1, wherein Seq.ID 12 can be provided with a T7-polymerase sequence, methods using said oligonucleotides for the detection of EBV, as well as a test kit comprising these oligonucleotides.

4. Claims: 1-4,7-16 (all partially)

Oligonucleotides with Seq.IDs 17-21 corresponding to the sequence of the exons 2,3,4,5,6,7 and 8 of LMP-2, wherein Seq.ID 19 can be provided with a T7-polymerase sequence, methods using said oligonucleotides for the detection of EBV, as well as a test kit comprising these oligonucleotides.

5. Claims: 1,2,6-10 (all partially)

Oligonucleotides with Seq.IDs 27-31 corresponding to the sequence of the BCRF1 reading frame spanning nucleotides 8675-10184 of vIL10, wherein Seq.ID 30 can be provided with a T7-polymerase sequence, methods using said oligonucleotides for the detection of EBV, as well as a test kit comprising these oligonucleotides.

6. Claims: 1,2,5,7-16 (all partially)

Oligonucleotides with Seq.IDs 22-26 corresponding to the

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

sequence of the BARF1 reading frame spanning nucleotides 165504-166166, wherein Seq.ID 24 can be provided with a T7-polymerase sequence, methods using said oligonucleotides for the detection of EBV, as well as a test kit comprising these oligonucleotides.

7. Claims: 1,2,6-16 (all partially)

Oligonucleotides with Seq.IDs 32-36 corresponding to the sequence of the BDLF2 reading frame spanning nucleotides 132389-131130, wherein Seq.ID 32 can be provided with a T7-polymerase sequence, methods using said oligonucleotides for the detection of EBV, as well as a test kit comprising these oligonucleotides.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 99/01392

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9323569 A	25-11-1993	US 5496698 A	05-03-1996
		AU 4221593 A	13-12-1993
		AU 687736 B	05-03-1998
		AU 4222993 A	13-12-1993
		CA 2135646 A	25-11-1993
		EP 0642589 A	15-03-1995
		JP 8500481 T	23-01-1996
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